


Rear Febr 19th Den Dr. Englemann - humy lost I sent how class May hotes on Lemma for Hopelmier. They were incrowd and I you how not sent the please Do not Do so. In both L. perpusilla (which I sepand as a good spains with L. thinvers as a ood. —) and L. Torreri the seed is Outhot spous! and what I colled 'arillas' is the testa in L. Torreri. L. perpusilla has the splumale large and sodicle evident. perishere thick, testa satter corraceous. L. Torring i has the Embeyor Elongated-oflong : Dvate, plument smole- rodich not seen - perispens of a single layer of cells as in Wolffin Brasiliensis (vide Weddell in Ann. Dei, Not. 3, 12, 120 pl. 8.) In L. gibba the hilum is at the open of the seed and birmy fixed In L. Torregi the hilum is at the born and attached to the inner cost as a short, thick, blackish stalk. The inner cost is also crowned at At a pay with an Spenculum which is apiculate, the central portion of the aficular hardened and blackish and surrounded by a single Buter coat (testa) as in Ligibbo, each, reparable. Studenth to the testa. seedwith the trulys Zertell Cemna Lipolyrchizo often has the young bounds with principour growns, in the spidermin or in La princitate Do not know as it is wath while Le Touryi teito to send any notes to Hogolowien\_ as I cannot write them in betie & I husum he will ser all that is to be seen without them. I send more specimen, Embyor. Minisperin Ving tuly Juns C. F. Autur PS, I have not yet his the Driver which I undustred quato my you had sent eAustri. Missouri BOTANICAL



Left 10. 1867 B. Secmann, Journal of Odotany April 1865 (N. 28 p. 110 Lemnacearum a Fr. Welwitsch i Afrika reguinort. collect. and L. Regulmaier (with pl.29) p. 111 Temma char gen. emend. athen 4-Cordans 112. L'univor ... ovulum et semen exerteur hemianatropan. L. Angolens is Welw. i litt. fronte, ovato-ellipticae (per d'unitro angustiones et breviones quam in L. minore)... Carnosalae, supera sotire carinate busi per sello Tenui run fronde menterna coherentes, aprèse Comiralatae, commando sum promisente. Obrila erestum atropum ['nd. singula] auther Eloralanis tvolftig char gen. 113. W. anhiga Wimmer, Hor. Schler. 3-20. 1857 florer frondes elliplise vil Inbrokeendre Tebles globoso, convexue superne leviter vonvexce simun brailan inapperte florer at i genere / much like Those of W. Brazil T --- Prisinine storotende et oblonger-allepteralist . W. repaide of nov. Hegele : fronder ovater at manying repards deutstre, sepenne sabbusque ornvex i asoule nime bestlani labium inferme longissime. productur, fromde ifra bisterve lenging, pyalinen. H. fr. generis ; fromtber repaulles duplo meshoriba, a del. hyslina (Delitei Schlei) distint p. 114 W. Welwitschi sp. nov. Hegel. fromder orstee bas; trærate aprise solamble, Temissione membranavere polleerste maga. De Le polyets. utningen punctis farris notatae, inflorescentile e forcoles bines enempeales . - Stornata non inven!

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
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


Berthold Seemann foul of Botany 52. April 1869 pay 115 Commercation of Australian Commerce by S. Kury 1. L. minor 2. L. pleiorrhiga L. Mall. Frondirelse oblongee Jupa in sicro pepillosae, vassius rulae, magiaibus purpurs ratio pleiorshijae. - Bondsele 1-12 liely lei lat. ndres 4-5 pullide omninsralee 1-1/2 pollong. Munray River Will From not convatenated. 3. L. melaconhiga L. Mell & Keng Frondiale convex. i'us oulie textura d'poly whigue oblongue vil subsoltino Inblus spengiosae 1-2-skriger radstilis urgresculity vil Gruneij. West Austrile; '& Fiji Alond Seem. 656 Seemann; sperimen, ave 3 times larger Than Muller's 4-L. Bitalet 4.116 Wishiling x W. Muchelis (andig) an istation file & himen "evitt aboth I gevite agree" Kung, Sulpire Kung en Linn. Proceed. 1K. 264 (June 1866) Encumenti of Rida Lemnasce p. 265 - Wolffei Deleili. Schleid. oblongs-globone, supen slomatifene i blus globon - eflatte, hyaline - var & 1/2 lin magn. p. 267 Lemma oligonhige Kung fromtrele plane tennius rule subobliga oblingre vil obtæriarrula 2-3 shige sibles purpourae. Tousitele concettenatie 3-4 le long 1/2-2 lin let. 1 pm 1-3 stricter. med Congrissione, flory ut - L. Mukore Ovaniam 2, ranside / ovulation Missouri

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


2am 1868) L'Alema for Gray's Mannel allitain p. 479. L. Torrey off - fl. as fris. 1-1/2 Jell seed onthe p L. purpose the very fle prestiferous, var trikervis. . for 1 somewhat hyaline some very their not! Southand? L. paurirostata Hegelm / under L. pupusilla ) fronds obliguely oborate This. (1-1/2 long) mostly grouped Ins togetter, pril as i. L. perpusitle. seed marked with 12 or 14 promise sharp ribs, televen which the surface is transversely strike. Touds about Illani, and sont ward the Tropos, of Sotters wolfin two celled author et mand. Leads W. Colembian, Karsten, Front globose or oval 13- 23" log) very loosely velledan equally light green on all sides, verpen senfave sounds of time he for the lower one, with very few (2-5) stomate, the virtular prolifers open at the base with a their border, but not appellaged, when dry forming a coverlar state, darker green anothe margin, - Placety afstagnet uniter with Lemma, near Scilcher, bridge Selen Com. I I. W Robber who direvel & many years age, change Co ny. C. T Auchi, Lete Ostanio I. Naice, men Detruit De J. M. Sigelow, Athen Ill. L. Hell ale t Storis D'Engelen - I south was I town less probably not rave, but overlooks, wardy flowing Ether Illing) with as, the fully place dien by Marster i Veneguela, aerne, to Aligebrain - lett. 128 wond 37 mone Missouri

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04 27 1867 Sistribution ad diguosis according to stomals and epidermis cells A. Sine stomatibus Cellulae epidermidis plus minus sinuosae, in facie superiore sere duplo minores quam in inferiore 1. Cellulae majores, megis sinnosae 2. Cellulae minores parries sinuosae, hihr inst Lorrege angulosae B. In plaga superiore stomatifense a. Cellede epidermidi in facu utnagne state sinuosae & maxime sinner ae, stomats plusima I Cellale epidemili supentris stomala (oum oellelig manguelles) L'eminon Jeren aequantes. L'herpusille L'hauci voitala\* 2. \_\_ stomatiber fere dyfle majores B. minus sinussae, slomale parciora, minora Cellule epidemidi fæcici superiris slomale (L. Sorreye fere acquaites de gibba a. Cellulae epidomilj i forie supir angulætee
vel vix sinus sae: 1. Stomatibus vix minores , via fæcie inferire fore ægules simultee fære deplo maging L. polyvhiga 2. Nomaliter mults (3-4) minorès : in preie inferiore y maxime L. Melanoshija \*) var minuta (Panama, DeConte in He Torrey) has slightly angled vells much like those of L. gibba and not larger the stomete. Missouri BOTANICAL

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- 18. Ege 1867 Amiran Lordi Tin of Lemma 51 Louis L. minor odt gramis with Tolgerh. & Wolfe L. Torregie Tonds on Hells north of Il Low with Azolla by 1847; Laker - Dottom with tris. Alters bottom with pola Tor Le feolywhigh A - Ooth, Manutet and, old genni Le paparille Pars a mandent med 1841 & relatifue 1867? Wolfin arting Can Co Mo L. polywhize L. populle Ahm Bothen L. Julyndin L. Zongi wolf ashign & wolfen ---Detwit Le troiler & polywhigh Muxim ( L. minor! propunte!) Ariyon L. Lorreys Lightlen! Lemma minor old quarries Illowin with la popular & libeth Darking Sante Te Tendlan 1008 fide Austria - ( why not perpose ") Le perpusible For Can Co Mo . Brondhand with polsetires. Lackrongen Aben Pa & Wyne Co Pa Anthis I same Cornlit? L. Torreyi Auch. Allowin Pouls Mills Lakes in bother with this. AManyan Bothon with poll S Centi And, Den Co. 11. Austi Clost MJ. Asjona Nº 457 Comsa Vallen L'etiselen C. Aldois Am Both with pol & For. Detroit, Byl Mex. La Ton 100% with pages, 1/27 L. polyshiza of Aldonis Old quanties with min. Pad on Manchest now 1841 airelets who empty to that The 1845 - Son Botton Can lo Mu Detwil sign Allon 1805 with Torr. 9.66 Anjon Cours & Vill. 441 MISSOURI BOTANICAL copyright reserved

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